

Name: \_\_\_\_\_

**pb1103: Factoring when  $a = \text{prime}$  (v5)**

1. Factor the expression  $5x^2 - 36x - 81$

$$(5x + 9)(x - 9)$$

2. Factor the expression  $7x^2 + 29x - 30$

$$(7x - 6)(x + 5)$$

3. Factor the expression  $5x^2 - 27x - 18$

$$(5x + 3)(x - 6)$$

4. Factor the expression  $7x^2 + 30x + 8$

$$(7x + 2)(x + 4)$$

5. Factor the expression  $7x^2 + 15x - 18$

$$(7x - 6)(x + 3)$$

6. Factor the expression  $7x^2 - 6x - 1$

$$(7x + 1)(x - 1)$$

7. Factor the expression  $5x^2 + 6x - 27$

$$(5x - 9)(x + 3)$$

8. Factor the expression  $11x^2 + 23x + 2$

$$(11x + 1)(x + 2)$$

9. Factor the expression  $5x^2 + 19x - 4$

$$(5x - 1)(x + 4)$$

10. Factor the expression  $11x^2 - 38x + 15$

$$(11x - 5)(x - 3)$$